

METHODS FOR PRODUCING AND PURIFYING RECOMBINANT  $\alpha$ -L-  
IDURONIDASE

ABSTRACT

The present invention provides a recombinant human  $\alpha$ -L-iduronidase and  
5 biologically active fragments and muteins thereof with a purity greater than 99%. The  
present invention further provides large-scale methods to produce and purify  
commercial grade recombinant human  $\alpha$ -L-iduronidase enzyme thereof.